

Title (en)

OPTIMIZE DATA PROTECTION LAYOUTS BASED ON DISTRIBUTED FLASH WEAR LEVELING

Title (de)

OPTIMIERTE DATENSCHUTZGESTALTUNG AUF DER GRUNDLAGE VON VERTEILTEM FLASH-NUTZUNGSAusGLEICH

Title (fr)

OPTIMISATION DE DISPOSITIONS DE PROTECTION DE DONNÉES SUR LA BASE D'UN NIVELLEMENT D'USURE DE FLASH DISTRIBUÉ

Publication

**EP 3458963 A4 20200212 (EN)**

Application

**EP 17831452 A 20170124**

Priority

- US 201662365852 P 20160722
- US 201615292004 A 20161012
- US 2017014664 W 20170124

Abstract (en)

[origin: US9672905B1] A method for storing data in a storage system having solid-state memory is provided. The method includes determining portions of the solid-state memory that have a faster access rate and portions of the solid-state memory that have a slower access rate, relative to each other or to a threshold. The method includes writing data bits of erasure coded data to the portions of the solid-state memory having the faster access rate, and writing one or more parity bits of the erasure coded data to the portions of the solid-state memory having the slower access rate. A storage system is also provided.

IPC 8 full level

**G06F 11/10** (2006.01); **G06F 3/06** (2006.01)

CPC (source: EP US)

**G06F 3/0611** (2013.01 - EP US); **G06F 3/0616** (2013.01 - EP US); **G06F 3/0619** (2013.01 - US); **G06F 3/065** (2013.01 - US); **G06F 3/0659** (2013.01 - EP US); **G06F 3/0679** (2013.01 - EP US); **G06F 3/0688** (2013.01 - EP US); **G06F 11/1044** (2013.01 - US); **G06F 12/0246** (2013.01 - US); **G11C 11/5628** (2013.01 - EP US); **G11C 16/3495** (2013.01 - EP US); **G06F 2212/7211** (2013.01 - US)

Citation (search report)

- [IA] US 2015043277 A1 20150212 - FITZPATRICK JAMES [US], et al
- [A] US 9082512 B1 20150714 - DAVIS JOHN D [US], et al
- [A] EP 2525293 A1 20121121 - APPLE INC [US]
- See also references of WO 2018017158A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**US 9672905 B1 20170606**; EP 3458963 A1 20190327; EP 3458963 A4 20200212; US 10831594 B2 20201110; US 11886288 B2 20240130; US 2018024877 A1 20180125; US 2021073069 A1 20210311; WO 2018017158 A1 20180125

DOCDB simple family (application)

**US 201615292004 A 20161012**; EP 17831452 A 20170124; US 2017014664 W 20170124; US 201715592069 A 20170510; US 202017085906 A 20201030